



Serial No.: 09/599,662 Filed: 06/22/00
Examiner: Davis Group Art Unit: 1636
Applicant: Anita K. Hopper *et al.*
Title: **Compositions and Methods for the
Quantification of Sterol Biosynthetic Flux**
Atty. Docket No.: PSU-04473 (09-2085)
Sheet 1 of 10

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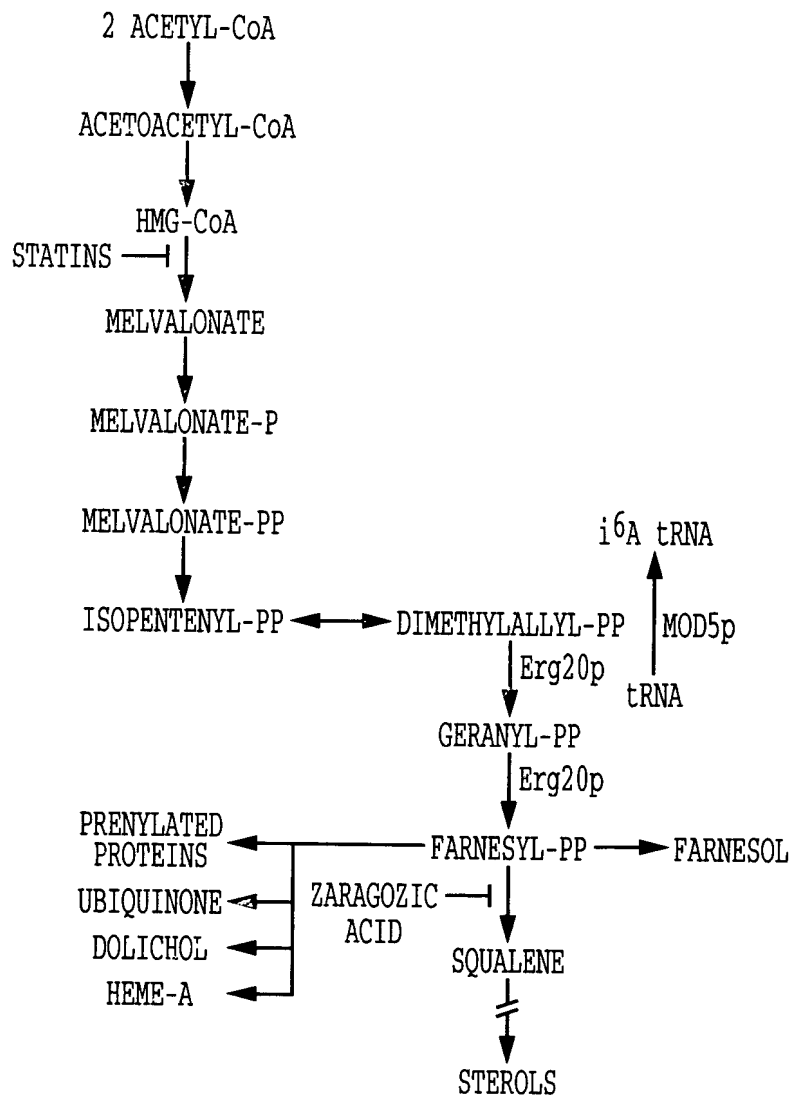


FIG. 1

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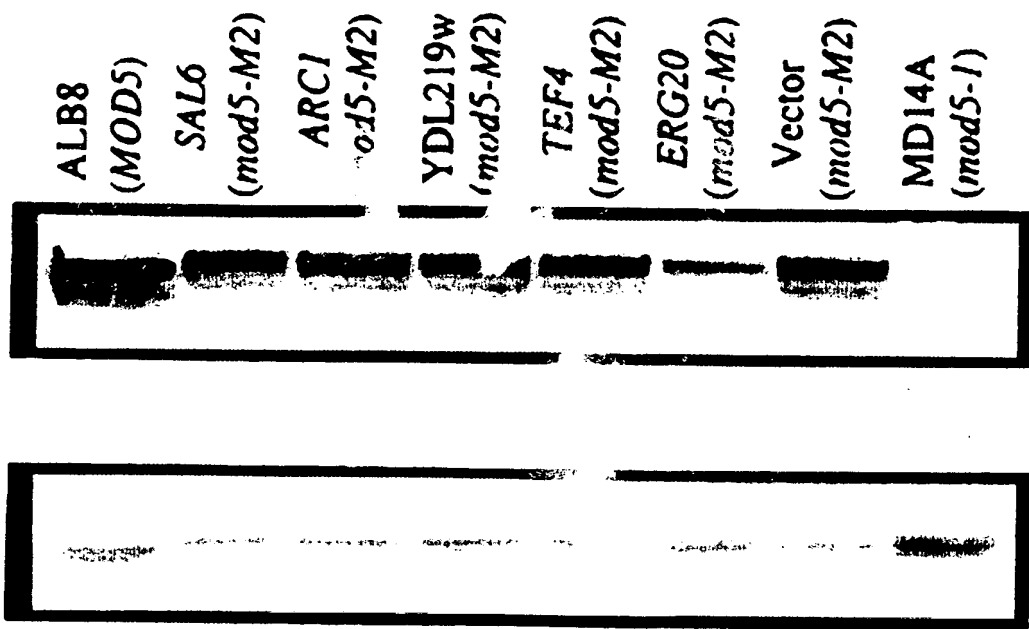


FIG. 2A



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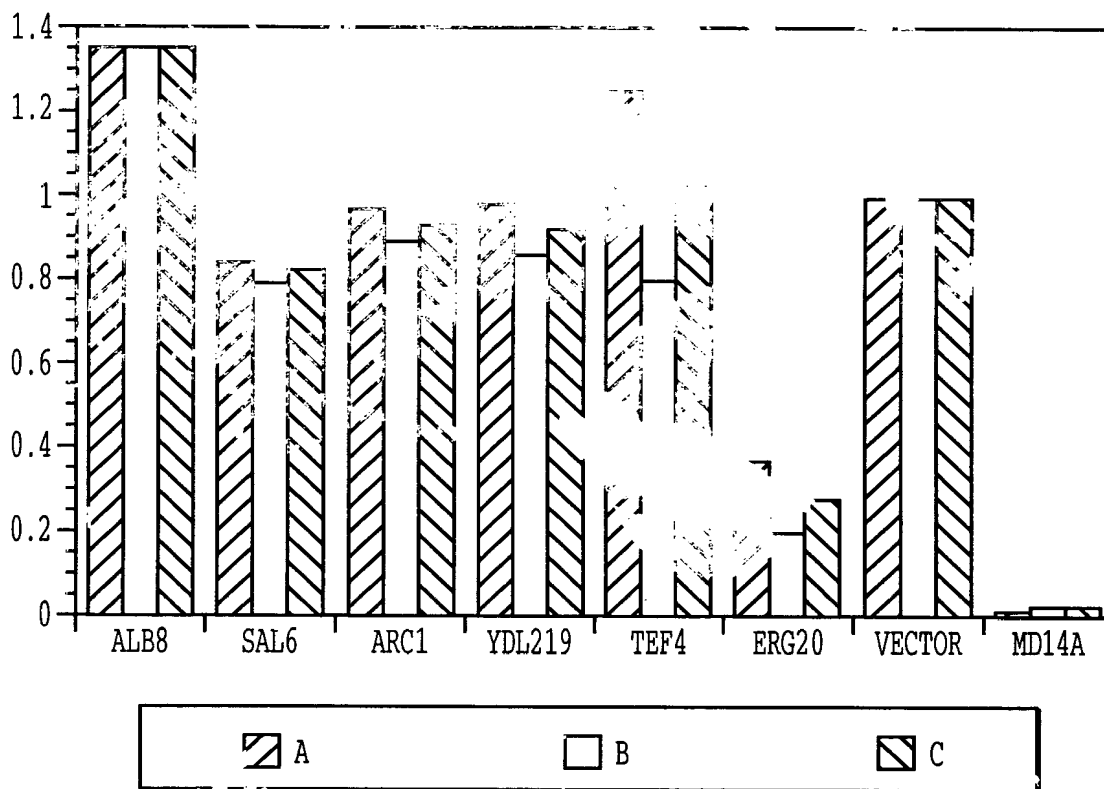


FIG. 2B



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PHENOTYPE OF ALB1 CELLS

WHITE/LIGHT PINK
COLONIES; GROWTH ON
-ADE MEDIA; NO GROWTH
ON CANAVANINE-
CONTAINING MEDIA

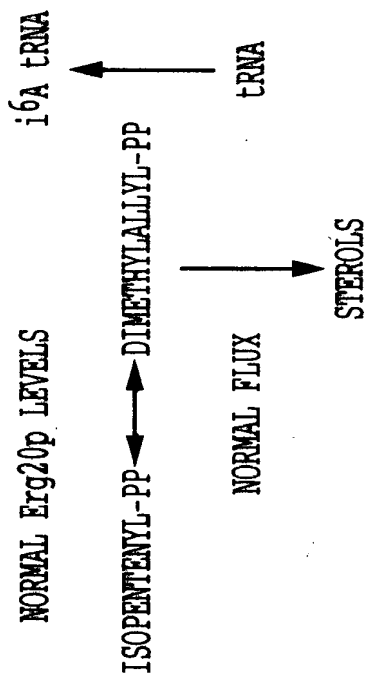


FIG. 3A



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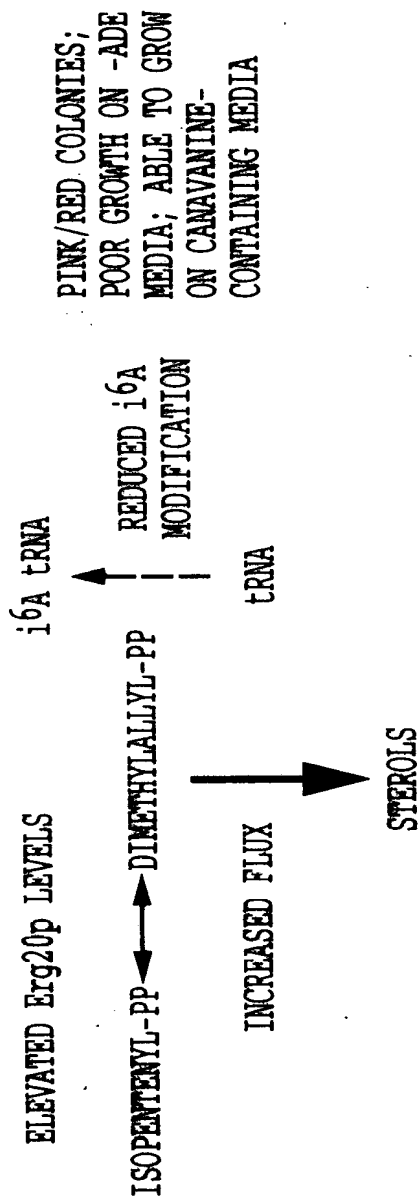


FIG. 3B



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NsiI
GAA TGC ATG
Glu Cys Met

↓ ↓
TATACGTACATATCTTTTGTAAATAGAACCAAAAATCTTCATG CTA AAG GGA CCG CTT AAA GGT TGC TTA AAT ATG TCT AAA
MET Leu Lys Gly Pro Leu Lys Gly Cys Leu Asn MET Ser Lys
1

SnaBI

WT

HindIII

AATCTTCAAG CTT AAG GGA CC

M1

SspI
GGT TGC TTA AAT ATT TCT AA
Gly Cys Leu Asn Ile Ser

M2

FIG. 4



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PHENOTYPE OF YEAST

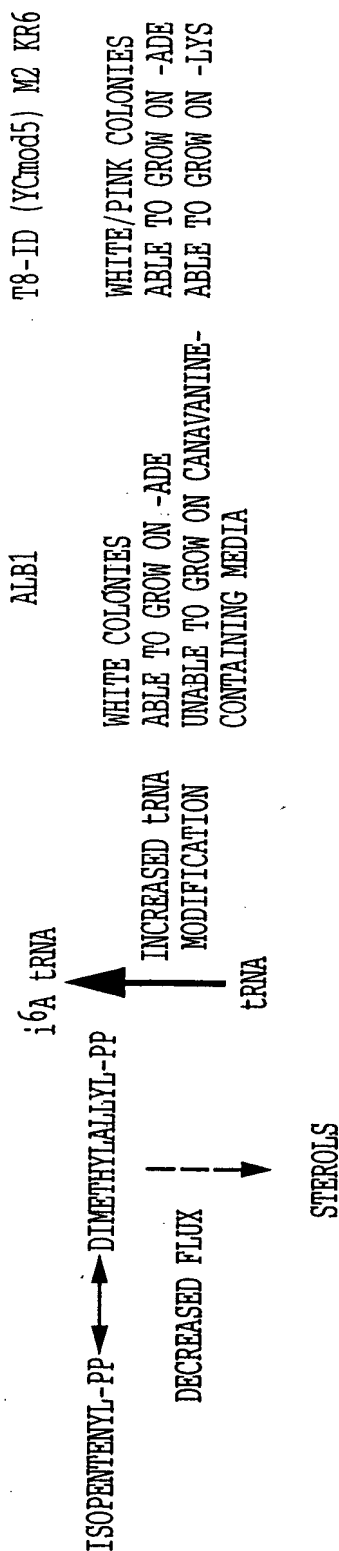


FIG. 5C

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PHENOTYPE OF YEAST

ALB1 T8-ID (YCmod5) M2 KR6

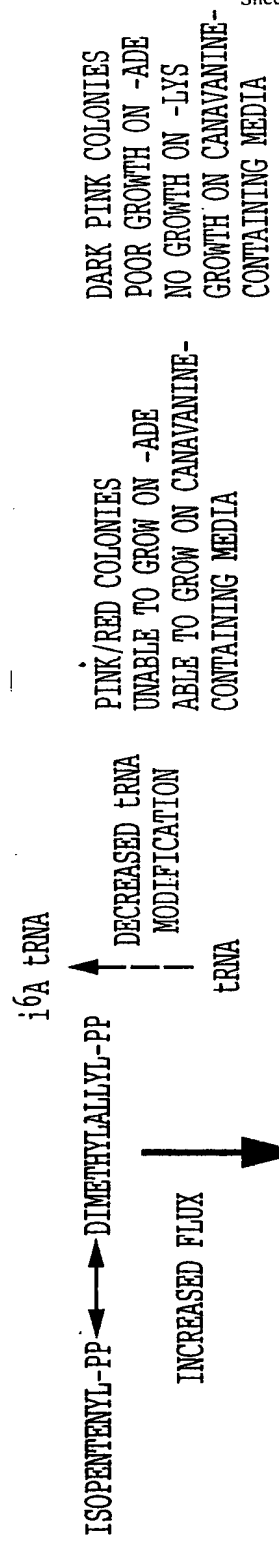
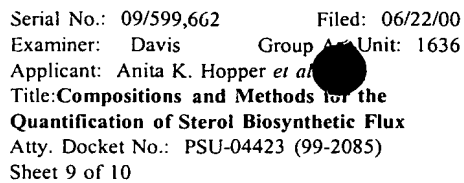


FIG. 5B



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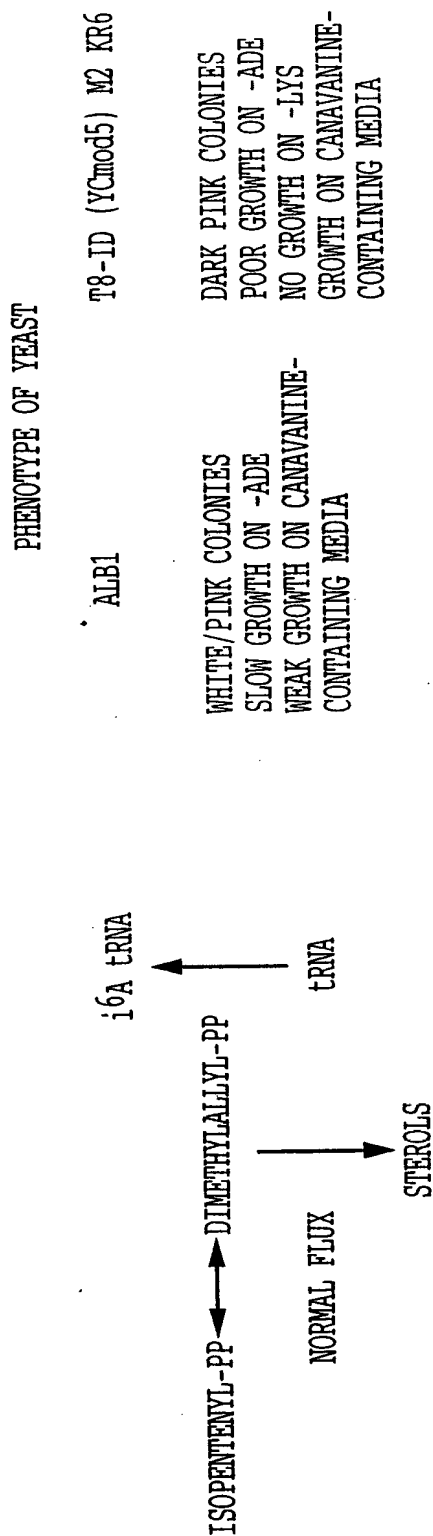
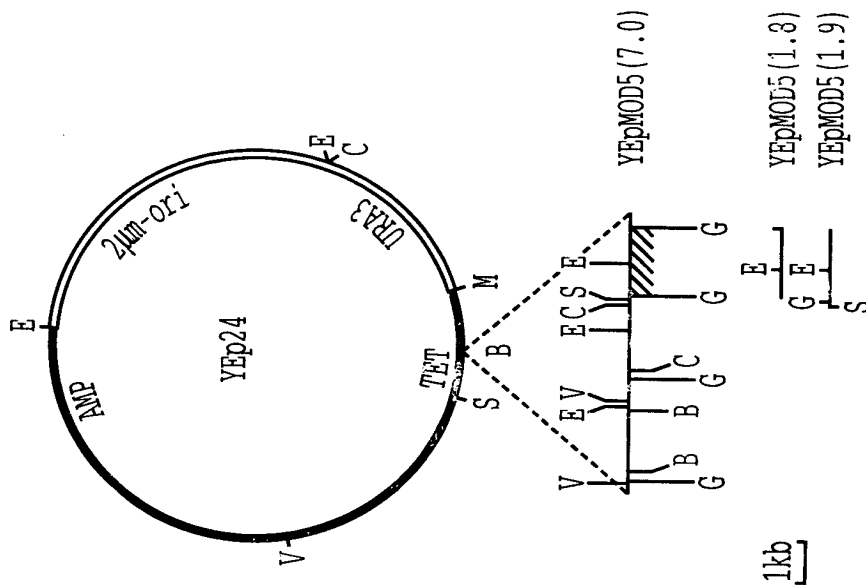


FIG. 5A



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YEp24; , *E. coli* sequences of vector genomic DNA; , insert of yeast genomic DNA; ; 1.8 kb *Bgl*II fragment used as a probe and fragment in YEpMOD5(1.8) and YCpMOD5(1.8). B, *Bam*HI; C, *Cl*al; E, *Eco*RI; G, *Bgl*II; M, *Sma*I; S, *Sal*I; V, *Pvu*II.

FIG. 6